



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/004,544 | 01/08/1998 | KUEI-CHUNG TU | CT-269 | 1349 |

7590 03/18/2002

KENNETH D ALESSANDRO
D ALESSANDRO & RITCHIE
P O BOX 640640
SAN JOSE, CA 951640640

EXAMINER

LEE, RICHARD J

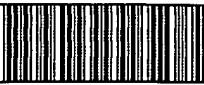
ART UNIT

PAPER NUMBER

2613

DATE MAILED: 03/18/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|---|--------------------------------------|---------------------------------|
| Office Action Summary | Application No. 09/004,544 | Applicant(s) Tu et al |
| | Examiner Richard Lee | Art Unit 2613 |
|  | | |
| <i>-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --</i> | | |
| Period for Reply | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. | | |
| <ul style="list-style-type: none"> - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | |
| Status | | |
| 1) <input checked="" type="checkbox"/> Responsive to communication(s) filed on <u>Jan 15, 2002</u> | | |
| 2a) <input checked="" type="checkbox"/> This action is FINAL. 2b) <input type="checkbox"/> This action is non-final. | | |
| 3) <input type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213. | | |
| Disposition of Claims | | |
| 4) <input checked="" type="checkbox"/> Claim(s) <u>1-4</u> is/are pending in the application. | | |
| 4a) Of the above, claim(s) _____ is/are withdrawn from consideration. | | |
| 5) <input type="checkbox"/> Claim(s) _____ is/are allowed. | | |
| 6) <input checked="" type="checkbox"/> Claim(s) <u>1-4</u> is/are rejected. | | |
| 7) <input type="checkbox"/> Claim(s) _____ is/are objected to. | | |
| 8) <input type="checkbox"/> Claims _____ are subject to restriction and/or election requirement. | | |
| Application Papers | | |
| 9) <input type="checkbox"/> The specification is objected to by the Examiner. | | |
| 10) <input type="checkbox"/> The drawing(s) filed on _____ is/are objected to by the Examiner. | | |
| 11) <input type="checkbox"/> The proposed drawing correction filed on _____ is: a) <input type="checkbox"/> approved b) <input type="checkbox"/> disapproved. | | |
| 12) <input type="checkbox"/> The oath or declaration is objected to by the Examiner. | | |
| Priority under 35 U.S.C. § 119 | | |
| 13) <input type="checkbox"/> Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). | | |
| a) <input type="checkbox"/> All b) <input type="checkbox"/> Some* c) <input type="checkbox"/> None of: | | |
| 1. <input type="checkbox"/> Certified copies of the priority documents have been received. | | |
| 2. <input type="checkbox"/> Certified copies of the priority documents have been received in Application No. _____. | | |
| 3. <input type="checkbox"/> Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). | | |
| *See the attached detailed Office action for a list of the certified copies not received. | | |
| 14) <input type="checkbox"/> Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). | | |
| Attachment(s) | | |
| 15) <input type="checkbox"/> Notice of References Cited (PTO-892) 18) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ | | |
| 16) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) | | |
| 17) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____ 20) <input type="checkbox"/> Other: _____ | | |

Art Unit: 2613

1. The Examiner wants to point out that the applicant's arguments from the amendment filed January 15, 2002 have been noted, considered, and addressed in the following new grounds of rejections.
2. Claims 1-4 are objected to because of the following informalities:
 - (1) claim 1, line 7, after "receiving", "a" should be inserted for clarity;
 - (2) claim 2, line 5, after "matrix", ":" should be changed to ";" for clarity;
 - (3) claim 2, line 8, after "receiving", "a" should be inserted for clarity;
 - (4) claim 2, line 9, after "data;," "and" should be inserted for clarity;
 - (5) claim 3, line 6, after "receiving", "a" should be inserted for clarity;
 - (6) claim 4, line 5, after "matrix", ":" should be changed to ";" for clarity;
 - (7) claim 4, line 8, after "receiving", "a" should be inserted for clarity; and
 - (8) claim 4, line 9, after "data;," "and" should be inserted for clarity. Appropriate correction is required.
3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 2613

4. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Bhaskaran et al of record (5,467,131).

Bhaskaran et al discloses a method and apparatus for fast digital signal decoding as shown in Figures 1-3, and 6, and the same apparatus and method as claimed in claims 1-4 for performing dequantization of an encoded video data stream (see 14 of Figure 1), comprising the same means (see columns 5-6) for receiving a quantization matrix corresponding to the encoded video data stream; means (i.e., scale factor K, see column 9, lines 13-40) for receiving a scale representing a compression ratio of the encoded video data stream; means (i.e., H[], see columns 5-6) for receiving a non-zero IDCT coefficient matrix corresponding to a block of encoded video data; means for multiplying a cosine matrix (i.e., a[], see column 5, line 60 to column 6, line 13) and the standard quantization matrix (i.e., q[], wherein $S[] = b[] \times q[]$, $b[] = a[]$, $a[] = \cos(I * \pi / 16) / (2 * c[])$, see column 5, line 60 to column 6, line 13, column 9, lines 28-40) to create a modified standard quantization matrix; and means for multiplying the scale (i.e., scale factor K for scaling coefficients b, see column 9, lines 13-27), the non-zero IDCT coefficient matrix (H[], see columns 5-6) and the modified standard quantization matrix (i.e., S[], wherein $Y[] = S[] \times H[]$, $S[] = b \times q \times$ diagonal matrix, S[] is modified standard quantization matrix, b is scaled by scale factor K, q is standard matrix, H[] is non-zero coefficient matrix, see columns 5-6, column 9, lines 13-40).

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2613

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. **Any response to this final action should be mailed to:**

Box AF

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Art Unit: 2613

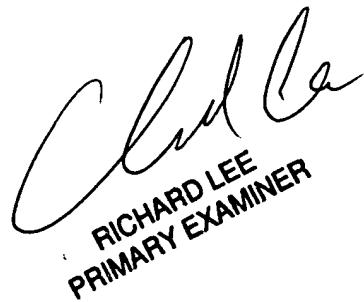
or faxed to:

(703) 872-9314, (for formal communications; please mark "EXPEDITED PROCEDURE") (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Lee whose telephone number is (703) 308-6612. The Examiner can normally be reached on Monday to Friday from 8:00 a.m. to 5:30 p.m., with alternate Fridays off.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group customer service whose telephone number is (703) 306-0377.



RICHARD LEE
PRIMARY EXAMINER

Richard Lee/rl

3/12/02